

**Diagram A**  
Gauge Dimensions

### VDO Limited Warranty

VDO North America warrants all merchandise against defects in factory workmanship and materials for a period of 24 months after purchase. This warranty applies to the first retail purchaser and covers only those products exposed to normal use or service. Provisions of this warranty shall not apply to a VDO product used for a purpose for which it is not designed, or which has been altered in any way that would be detrimental to the performance or life of the product, or misapplication, misuse, negligence or accident. On any part or product found to be defective after examination by VDO North America, VDO North America will only repair or replace the merchandise through the original selling dealer or on a direct basis. VDO North America assumes no responsibility for diagnosis, removal and/or installation labor, loss of vehicle use, loss of time, inconvenience or any other consequential expenses. The warranties herein are in lieu of any other expressed or implied warranties, including any implied warranty of merchantability or fitness, and any other obligation on the part of VDO North America, or selling dealer.

(NOTE: This is a "Limited Warranty" as defined by the Magnuson-Moss Warranty Act of 1975.)

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## 1 BEGIN HERE

**CAUTION:** Read these instructions thoroughly before making installation. Do not deviate from assembly or wiring instructions. Always disconnect battery ground before making any electrical connections. If in doubt, please contact your dealer or VDO Instruments at (540) 665-2428.

### General Information:

Your VDO mechanical temperature gauge features the latest illumination technology and a rugged design to insure years of durable and reliable operation. This instrument may require additional adapters to

### Parts List

Item	Description	Quantity
1.	Temperature Gauge (2 5/8" [65 mm] diameter)	1
2.	1/2" Adapter	1
3.	Lamp Socket	1
4.	Light Bulb	1
5.	VDO Mounting Bracket and nuts	1
6.	Installation Instructions	1

### Tools and Materials Needed For Installation:

16 Gauge stranded, insulated wire  
 Insulated 1/4" spade connectors  
 2 5/8" hole saw  
 Drill and drill bit set  
 Half-round file  
 Tape measure or ruler  
 Small tools: wrench or nut driver, utility knife, pliers, etc.  
 Various engine adapters

complete installation with various engines. You may purchase these adapters from your VDO dealer.

### Gauge Installation:

1. Select the location where you will mount the gauge, and mark a center point for a hole (or use a VDO Mounting Accessory [1, 2, & 3 hole chrome and black] or a VDO Mounting Cup [chrome or black]).
2. Cut a 2 5/8" (65 mm) diameter hole for the temperature gauge. Place the instrument into the hole. If the gauge is too snug, use a file to slightly enlarge the opening until the gauge fits properly. (Diagram A)
4. Slip the mounting bracket over the mounting bolts on the back of the gauge. Screw on the accompanying nuts. Tighten the nuts until the gauge can no longer be rotated by hand. **DO NOT OVERTIGHTEN!**

### CAUTION!!!

The bezel diameter is only a few millimeters larger than the gauge itself. **With that in mind, measure and precisely mark the gauge location before cutting any holes!**

**VDO® North America**

**Mechanical Temperature Gauge**

Installation Instructions

Instruction Sheet #0 515 011 805  
 Rev. 3/99

INSTRUCTIONS FOR THE INSTALLATION OF THE MECHANICAL TEMPERATURE GAUGE ARE CONTAINED HEREIN. USE IS RESTRICTED TO 12-VOLT NEGATIVE GROUND ELECTRICAL SYSTEMS. LIGHT BULB, IF SUPPLIED, IS 12 VOLTS.

To Begin, go to # **1**

## 2 CONTINUE HERE

### Gauge Hookup and Lamp Wiring:

1. Drill a  $\frac{7}{8}$ " hole in the firewall. Route the capillary tube from the gauge through the hole in the firewall to the engine. DO NOT CRIMP the tubing closed during routing. A rubber grommet is recommended around the tubing where it passes through the firewall.
2. Determine whether you will need the

supplied  $\frac{1}{2}$ " adaptor to connect the capillary tube to the engine. (See Diagram B)

3. If you do not need any adaptors, attach the tubing to the engine using the  $\frac{1}{4}$ " self-sealing nut. If you need the  $\frac{1}{2}$ " adaptor, install it in the engine port. Then insert the heat sensing bulb and sealing nut into the  $\frac{1}{2}$ " adaptor and carefully tighten the sealing nut. (See a VDO catalog if a different type of adaptor is necessary.)

**DO NOT OVERTIGHTEN THE SEALING NUTS OR YOU WILL DAMAGE THE TUBING!**

4. Run the wire from the gauge lamp socket to the lighting circuit (a +12 volt source, usually after the light switch fuse in the fuse box). See Diagram B.

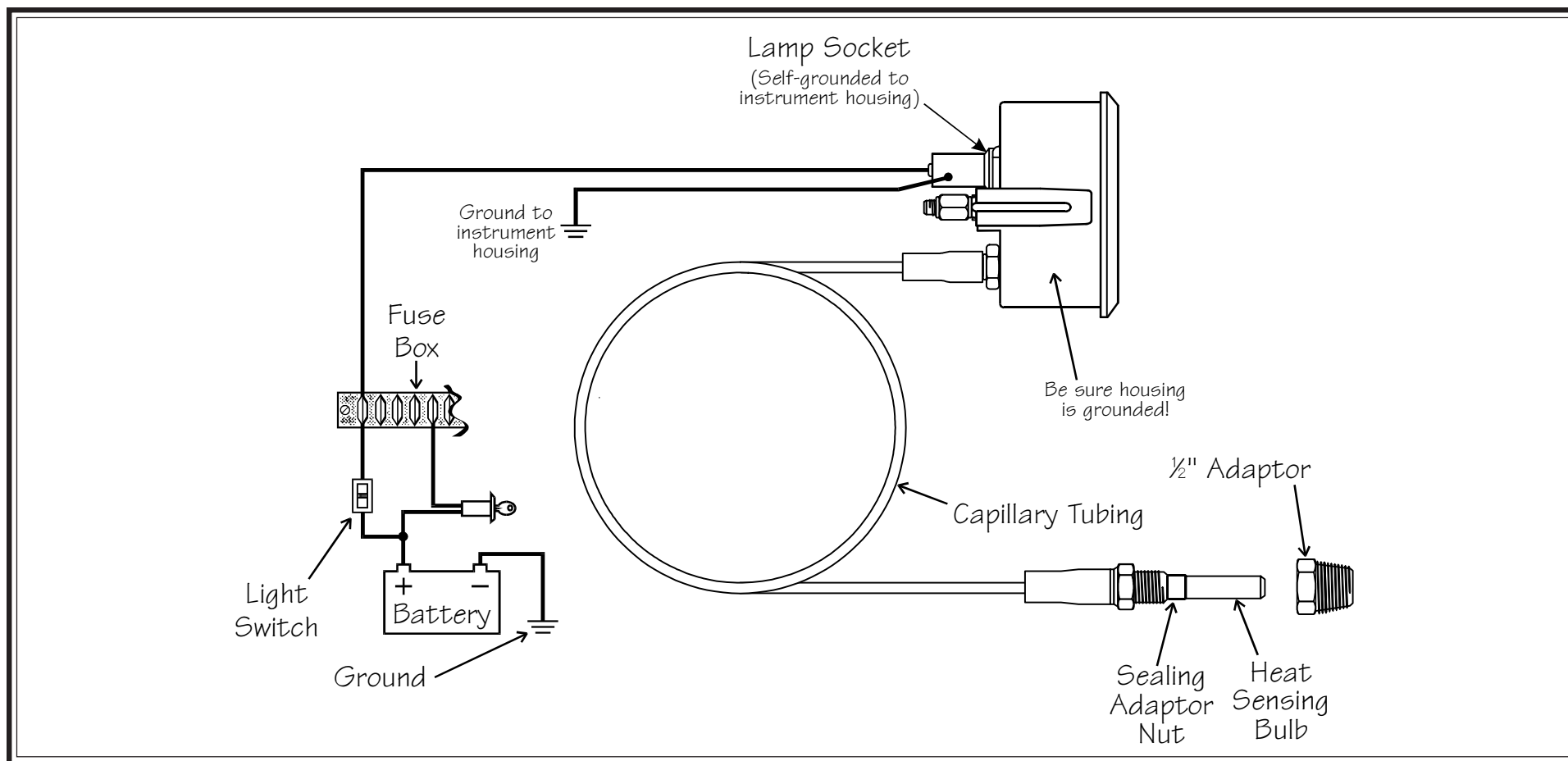
At this point, installation is complete. Recheck the routing of the tube from the gauge to the engine.

*is totally free of kinks.*

Start the engine and turn on the lights to make sure the gauge illumination functions properly. If it doesn't, recheck your connections and your wiring. Make sure the housing of the gauge is grounded. Check all tubing connections for leaks.

### CAUTION:

*Make sure the tube is absolutely free from moving and/or hot engine components, and that it*



**Diagram B**

Gauge hookup and lamp wiring information